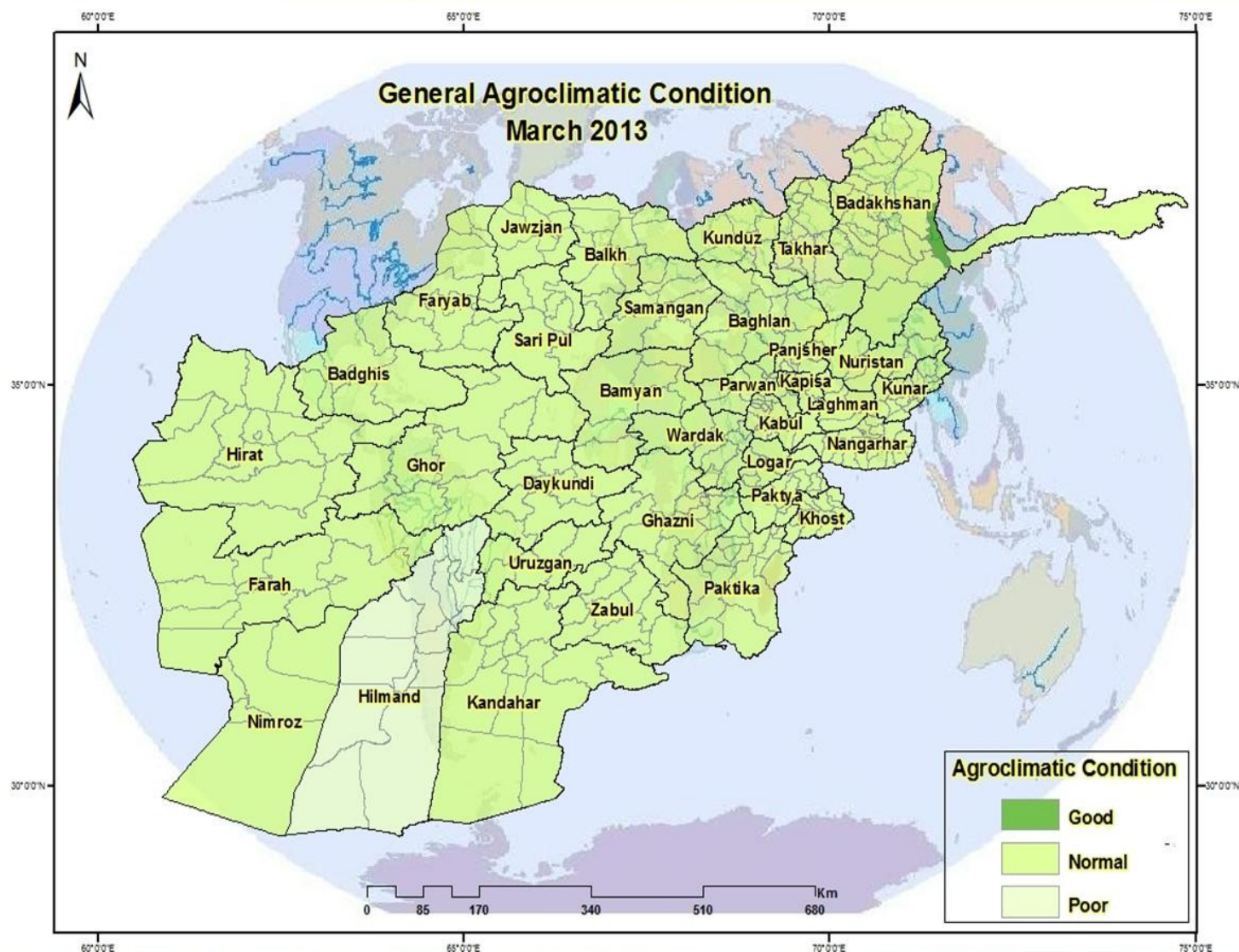




Issue No: 97
March: 2013

The Afghanistan Agrometeorological Monthly Bulletin

Topics Crop Information Precipitation Temperature NDVI



Adverse Factor

1

Crop Condition

2

Crop Stage

3



The Agromet Project of USGS, is working together with the Ministry of Agriculture, Irrigation and Livestock (MAIL) and the Afghan Meteorological Authority (AMA) of Ministry of Transport (MoT)

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Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project , Afghan Meteorological Authority (AMA), United States Geological Survey (USGS).

Summary

During the month of March 2013 low pressure systems passed over the country and brought widespread precipitation in most parts of the country, which helped in reducing the precipitation deficits of the previous months. The rainfall was mostly accompanied by liquid precipitation and was mostly concentrated in the Eastern, Northeastern and Northwestern regions.

During the month of March 2013, the country experienced widespread precipitation and was mostly accompanied with liquid precipitation, this situation decreased the snow extent and snow depth in snow coverage areas of the country. Comparison of snow extent for the period of March (14 – 21)2013 with the same period in 2012 shows, significant decrease of snow.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Emergence	Normal	Not Existed
		Paghman	Paghman	Emergence	Normal	Not Existed
		Kabul	Darulaman	Emergence	Normal	Not Existed
		Surubi	Surubi	Flowering	Normal	Weeds & Shortage of Input
	Panjsher	Dara	Dara	Emergence	Normal	Not Existed
		Dashtak	Dashtak	Emergence	Normal	Not Existed
	Parwan	Syagerd	Gorband	Emergence	Normal	Not Existed
		Charikar	Charikar	Vegetative	Good	Not Existed
	Kapisa	Mahmoodraqi	Mahmoodraqi	Vegetative	Normal	Not Existed
		Kohistan	Kohistan	Vegetative	Good	Not Existed
	Wardak	Maidan shehr	Maidan shehr	Emergence	Normal	Not Existed
	Logar	Pole Alam	Pole Alam	Emergence	Normal	Not Existed
	Bamyan	Bamyan	Bamyan	Emergence	Normal	Not Existed
		Yakawlang	Yakawlang	Emergence	Normal	Not Existed
		Panjab	Panjab	Dormancy		
		Shebar	Shebar			
		Kohmard	Kohmard	Vegetative	Normal	Not Existed
	Ghazni	Andar	Bande Sardi	Vegetative	Normal	Not Existed
	Dikondy	Nili	Nili	Emergence	Normal	Not Existed
		Khideer	Khideer	Emergence	Normal	Not Existed
East	Nangarhar	Agam	Agam	Vegetative	Normal	Not Existed
		Batikut	Ghaziabad	Vegetative	Normal	Not Existed
		Jalalabad	Farm jaded	Flowering	Normal	Weeds

Crop Stage, Crop Condition and Adverse Factor

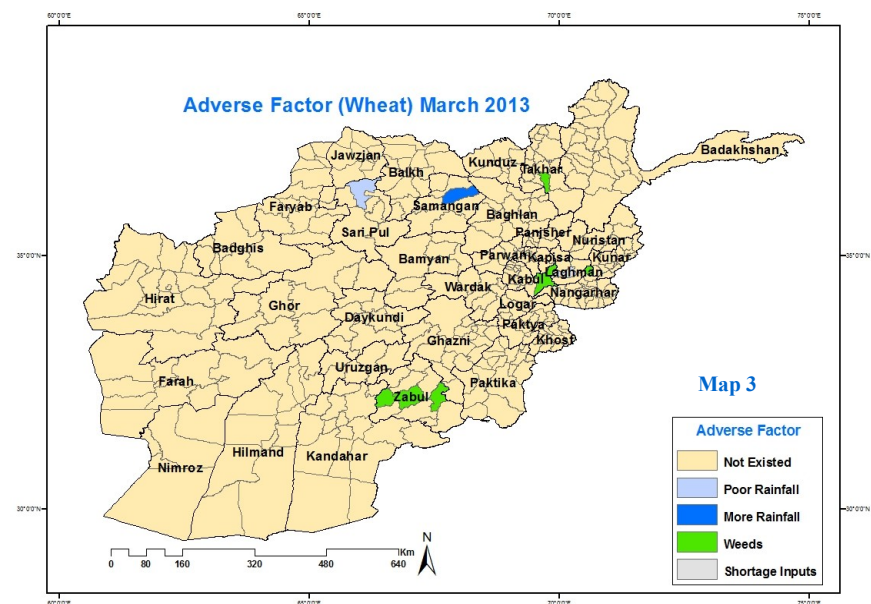
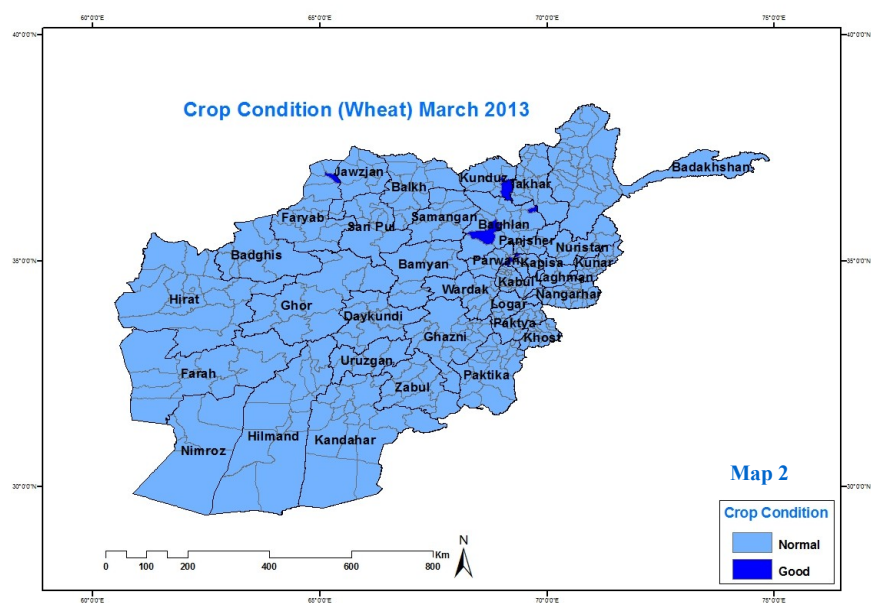
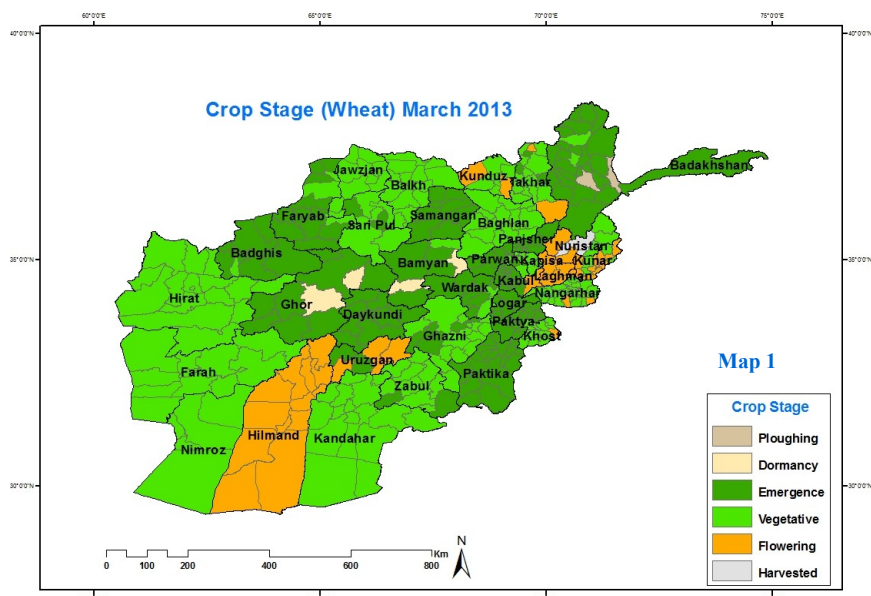
Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Vegetative	Normal	Not Existed
		Asad Abad	Asad Abad	Flowering	Normal	Not Existed
		Chawkay	Chawkay	Flowering	Normal	Not Existed
	Laghman	Mihtarlam	Mihtarlam	Flowering	Normal	Shortage of Input
		Qarghay	Qarghay	Flowering	Normal	Not Existed
		Alengar	Alengar	Flowering	Normal	Not Existed
	Noristan	Paroon	Paroon	Harvested		
		Do Ab	Do Ab			
		Norgaram	Norgaram	Flowering	Normal	Not Existed
		Waigal	Waigal	Vegetative	Normal	Not Existed
		Wama	Wama	Harvested		
North East	Takhar	Taluqan	Taluqan	Vegetative	Normal	Weeds
		Rostaq	Rostaq	Emergence	Normal	Not Existed
		Aqmasjad	Aqmasjad	Vegetative	Good	Not Existed
	Kunduz	Imam Sahib	Imam Sahib	Vegetative	Normal	Not Existed
		Qaliazal	Aqtipa	Flowering	Normal	Not Existed
		Khan Abad	Khan Abad	Flowering	Good	Not Existed
		Kunduz	Kunduz	Vegetative	Normal	Not Existed
		Archi	Archi	Vegetative	Normal	Not Existed
		Chardara	Chardara	Emergence	Normal	Not Existed
		Ali Abad	Ali Abad	Vegetative	Normal	Not Existed
	Baghlan	Pulikhomri	Pozaisshan	Vegetative	Normal	Not Existed
		Doshy	Doshy	Vegetative	Good	Not Existed
	Badakhshan	Argo	Argo	Emergence	Normal	Not Existed
		Baharak	Baharak	Emergence	Normal	Not Existed
		Ashkashm	Ashkashm	Ploughing		
		Khash	Khash	Emergence	Normal	Not Existed
		Faiz Abad	Faiz Abad	Vegetative	Normal	Not Existed
South East	Khost	Khost	Khost	Vegetative	Normal	Not Existed
		Khost	Shimal	Vegetative	Normal	Not Existed
		Ali Sher	Ali Sher	Vegetative	Normal	Not Existed
	Paktia	Zormat	Rohani Baba	Emergence	Normal	Not Existed
		Gardiz	Tera	Emergence	Normal	Not Existed
	Paktika	Urgon	Urgon	Emergence	Normal	Not Existed
		Sharana	Sharana	Emergence	Normal	Not Existed
		Khair kot	Khair Kot	Emergence	Normal	Not Existed

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Vegetative & Flowering	Normal	Not Existed
	Kandahar	Kandahar	Kandahar	Vegetative	Normal	Not Existed
		Kohkaran	Kohkaran	Vegetative	Normal	Not Existed
	Zabul	Qalat	Qalat	Vegetative	Normal	Weeds
	Urozgan	Tirin Kot	Tirin Kot	Flowering	Normal	Not Existed
	Hilmand	Nad Ali	Nad Ali	Flowering	Normal	Not Existed
		Greshk	Greshk	Flowering	Normal	Not Existed
		Nawa	Nawa	Flowering	Normal	Not Existed
		Lashkargah	Bolan	Flowering	Normal	Not Existed
North	Balkh	Takhta pol	Dihdadi	Vegetative	Normal	Not Existed
		Mazar shareef	Mazare shareef	Vegetative	Normal	Not Existed
		Nahrishahi	Nahrishahi	Vegetative	Normal	Not Existed
		Dawlat Abad	Dawlat Abad	Vegetative	Normal	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Vegetative	Normal	Not Existed
		Darzab	Darzab	Vegetative	Normal	Not Existed
		Aqcha	Aqcha	Vegetative	Normal	Not Existed
	Saripul	Saripul	Saripul	Vegetative	Normal	Poor Rainfall
		Sancharak	Sancharak	Emergence	Normal	Not Existed
		Sozmaqala	Sozmaqala	Vegetative	Normal	Not Existed
	Faryab	Maimana	Maimana	Emergence	Normal	Not Existed
		Andkhoy	Andkhoy	Vegetative	Good	Not Existed
		Garzeewan	Garzeewan	Emergence	Normal	Not Existed
	Samangan	Aibak	Aibak	Emergence	Normal	More Rainfall
		Dara Souf	Dara Souf	Emergence	Normal	Not Existed
		Sar bagh	Sarbagh	Emergence	Normal	Not Existed
North West	Badghis	Ma`qur	Maqur	Emergence	Normal	Not Existed
		Qalainow	Qalainow	Vegetative	Normal	Not Existed
	Ghor	Chaghcharan	Chaghcharan	Emergence	Normal	Not Existed
		Dawlat yar	Dawlat yar	Dormancy		
	Hirat	Shindand	Shindand	Vegetative	Normal	Not Existed
		Hirat	Hirat	Vegetative	Normal	Not Existed
		Zindajan	Zindajan	Vegetative	Normal	Not Existed
		Gwazara	Falahat	Vegetative	Normal	Not Existed
		Hirat	Farm Urdokhan	Vegetative	Normal	Not Existed
	Farah	Farah	Farah	Vegetative	Normal	Not Existed

Data Source: Agromet Network

Wheat Crop Stage, Condition and Adverse Factor Maps



Data Source: Agromet Network

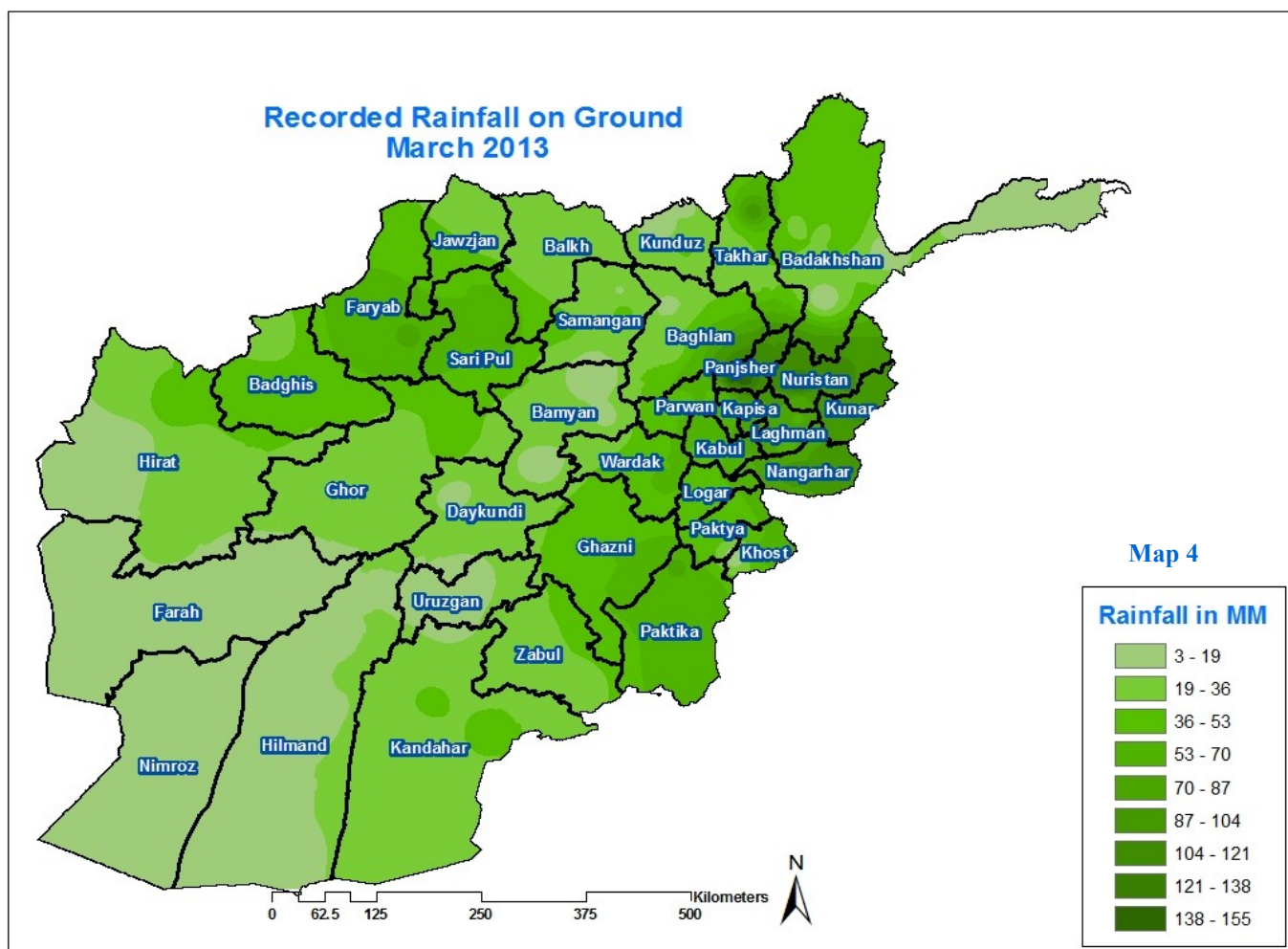
Precipitation

During the month of March 2013 low pressure systems passed over the country and brought widespread precipitation in most parts of the country, which helped in reducing the precipitation deficits of the previous months. The rainfall was mostly accompanied by liquid precipitation and was mostly concentrated in the Eastern, Northeastern and Northwestern regions.

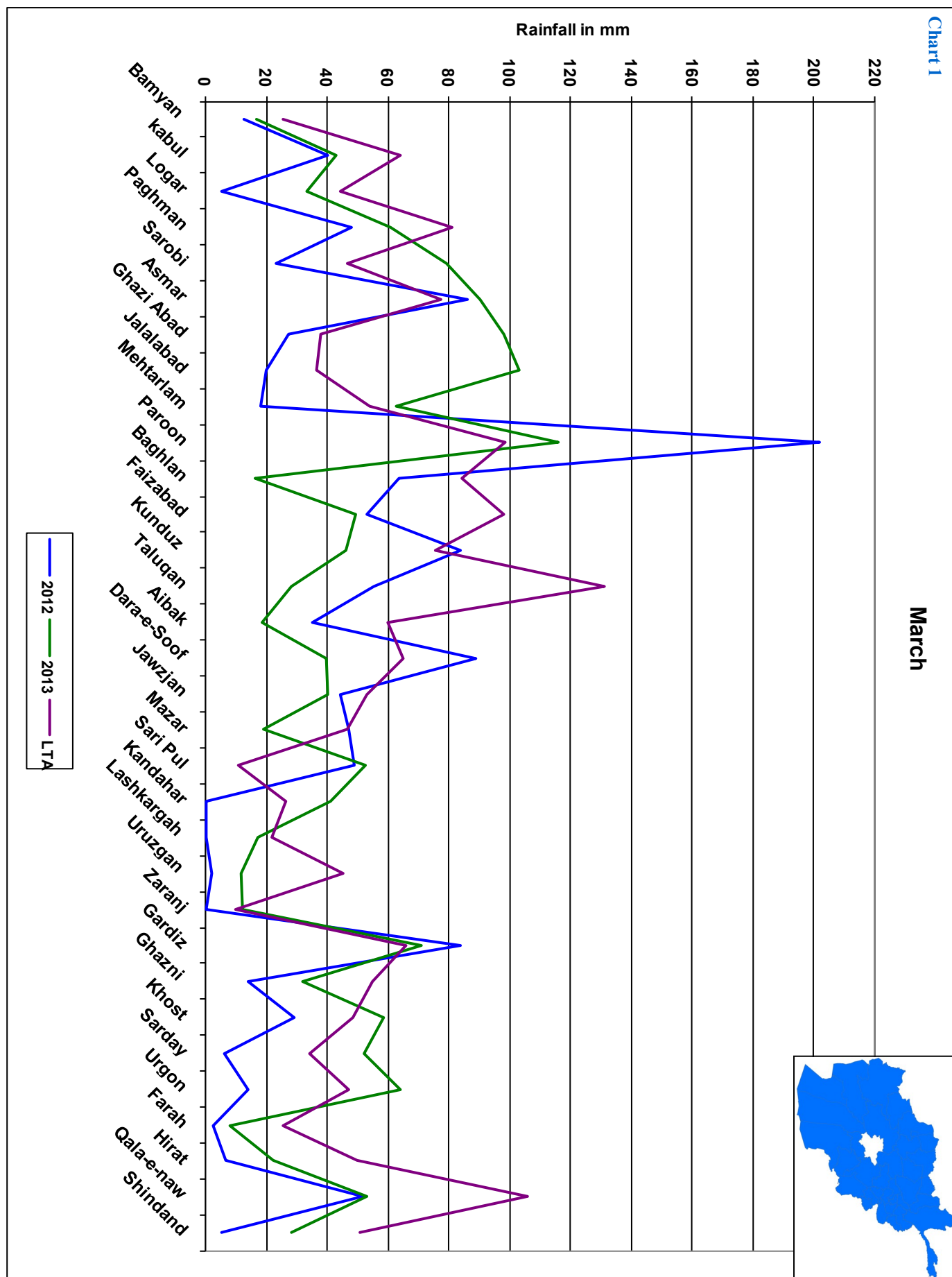
Comparison of rainfall data for the month of March 2013 with the same month in 2012 (Chart 1) shows that in general there was no change in rainfall during the month of March 2013 over the same month of last year, but in specific localities recorded rainfall shows variable situation. Rainfall had an increase in some parts of the country while rainfall had a decrease in some other parts.

Comparison of rainfall data for the month of March 2013 with the same month of long term average (Chart 1) shows, decrease of rainfall during the month of March 2013 over the same month of long term average in most parts of the country.

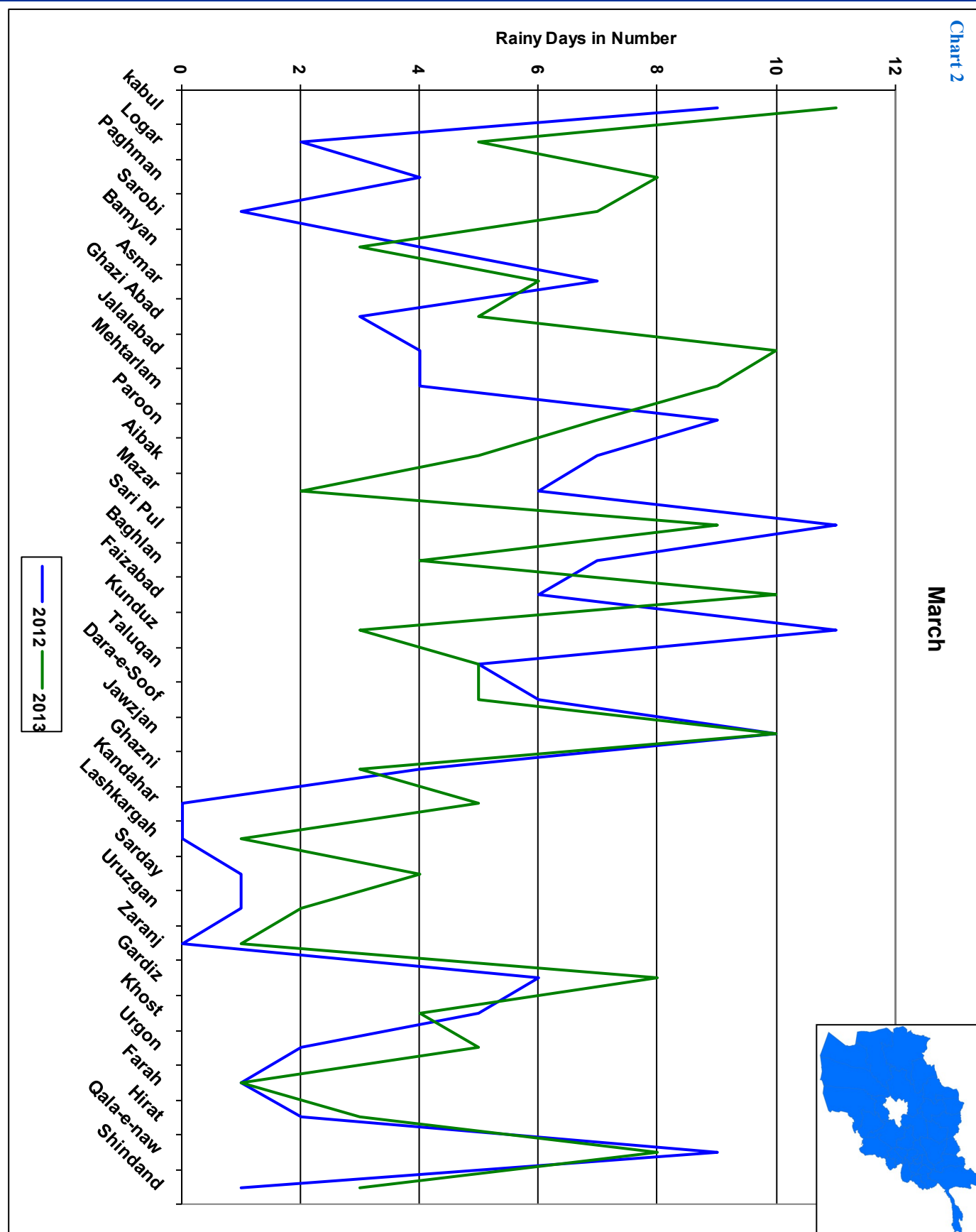
During the month of March 2013, most amount of rainfall has occurred in some parts of Northeastern, Eastern, Capital, Northwestern and some parts of Southeastern region. The Central Highlands, Western and Southern, and some parts of the Northern regions received moderate rainfall. The Southwestern experienced the lowest amount of rainfall during the month of March 2013.



Rainfall Graphs for the Month of March 2013



Rainy Days for the Month of March 2013

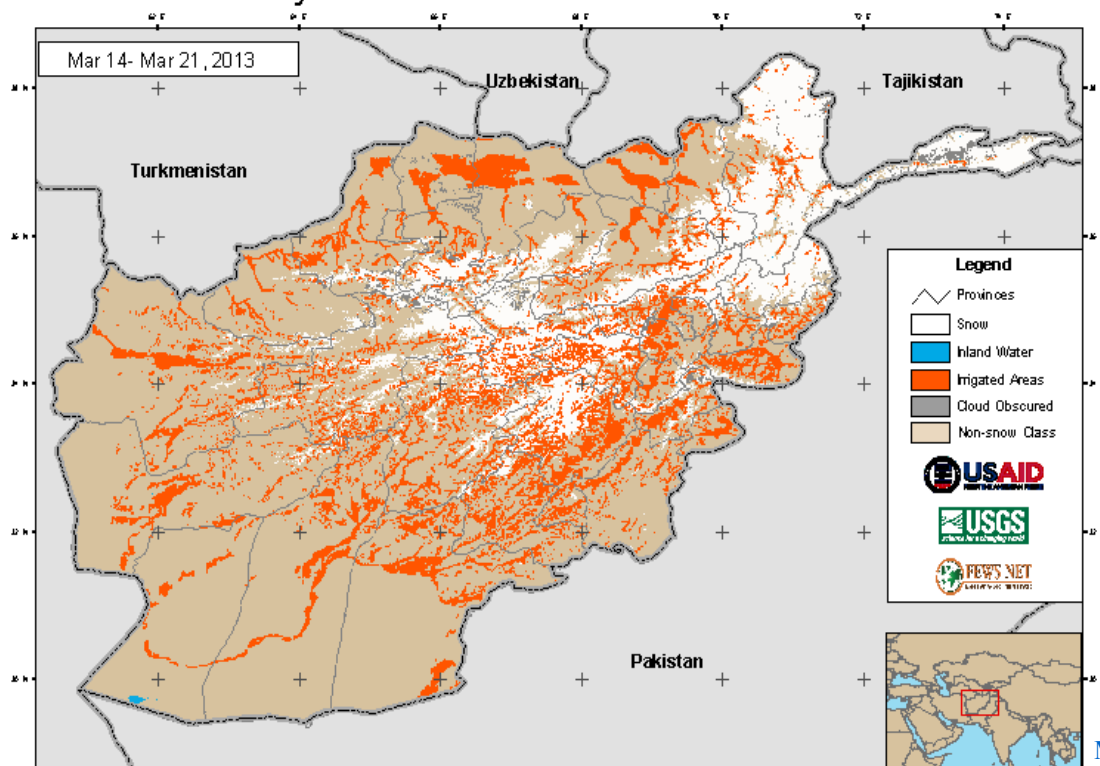


Comparison of rainy days for the month of March 2013 with the same month of last year (Chart 2) shows that

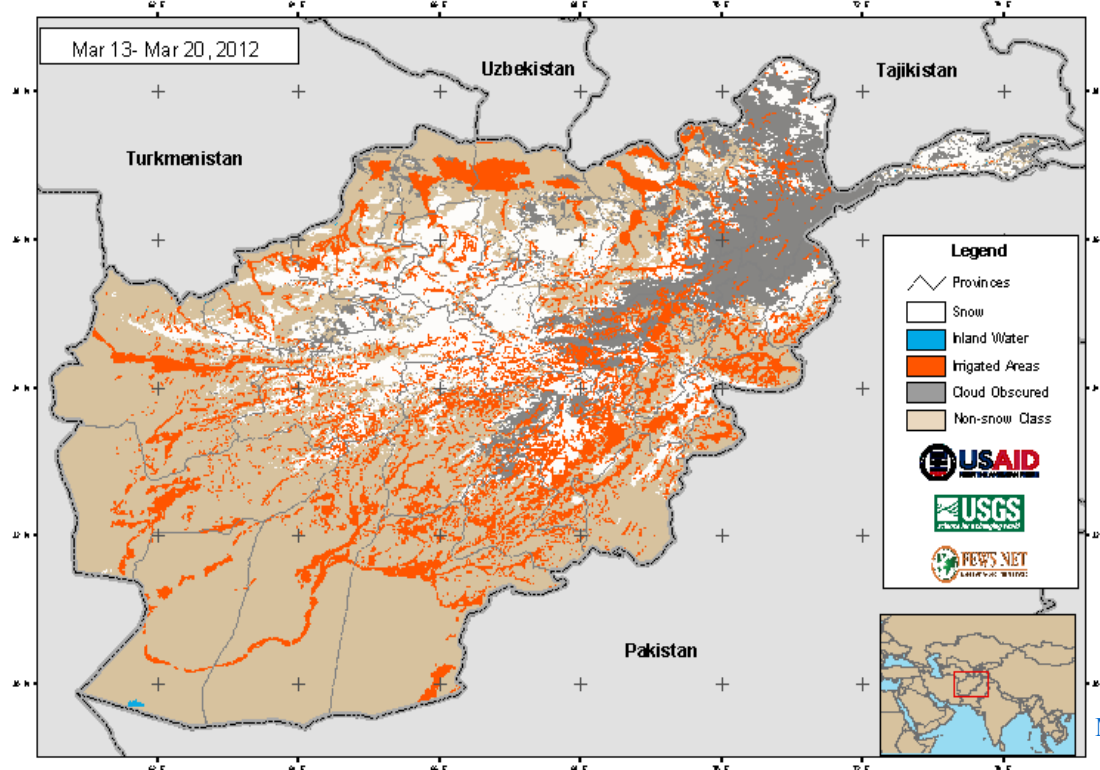
there was no change in rainy days during the month of March 2013 over the same month of last year.

Afghanistan Snow Depth for month of March 2013

MODIS 8-day Snow Cover Extent - Current Period 2013 vs 2012



Map 5

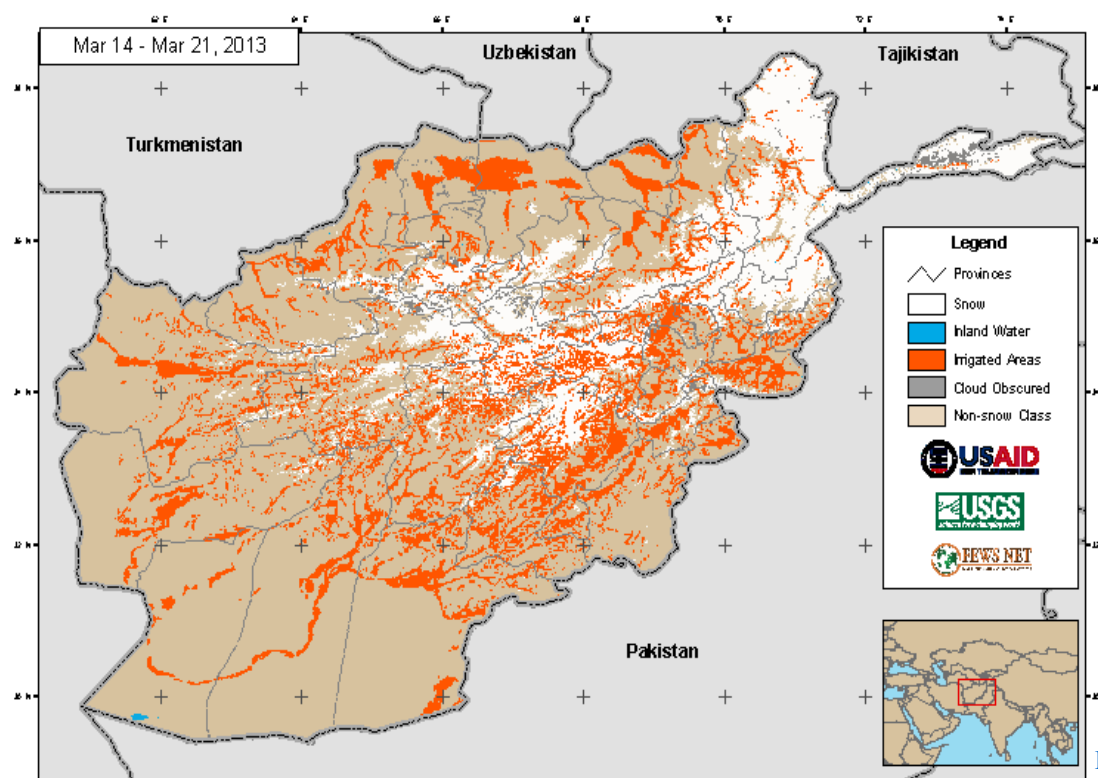


Map 6

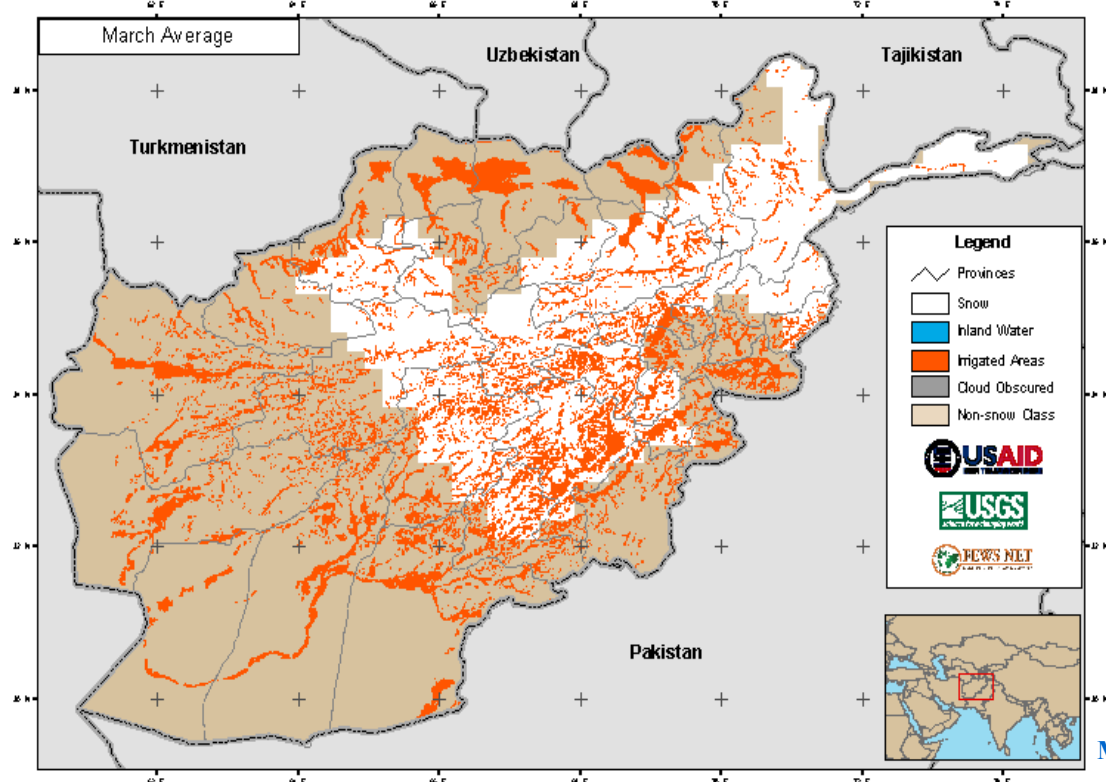
During the month of March 2013, the country experienced widespread precipitation and was mostly accompanied with liquid precipitation, this situation decreased the snow extent and snow depth in snow coverage areas of the country.

Comparison of snow extent for the period of (March 14 – 21) 2013 with the same period in 2012 (Map 5—6) shows, significant decrease of snow extent during the above mentioned period of March 2013 over the same period of March 2012.

MODIS 8-day Snow Cover Extent - Current vs Historical Average



Map 7

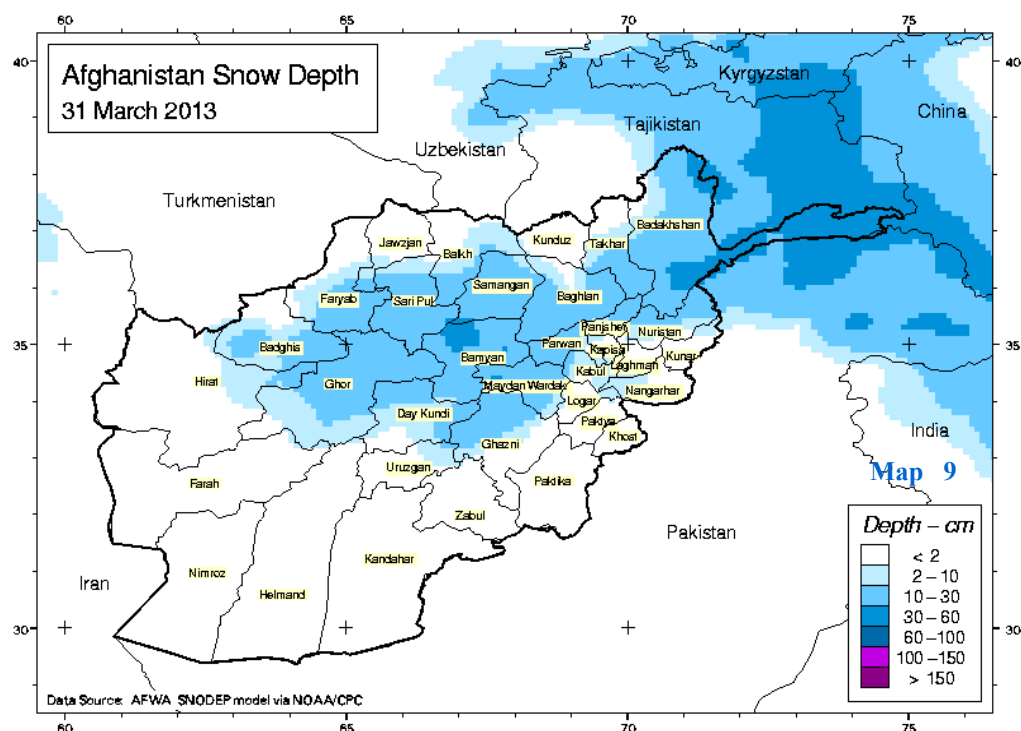


Map 8

Comparison of snow extent for the month of March 2013 with the same month of long term average (Map 7 - 8) shows, significant decrease of snow

extent during the month of March 2013 over the same month of long term average.

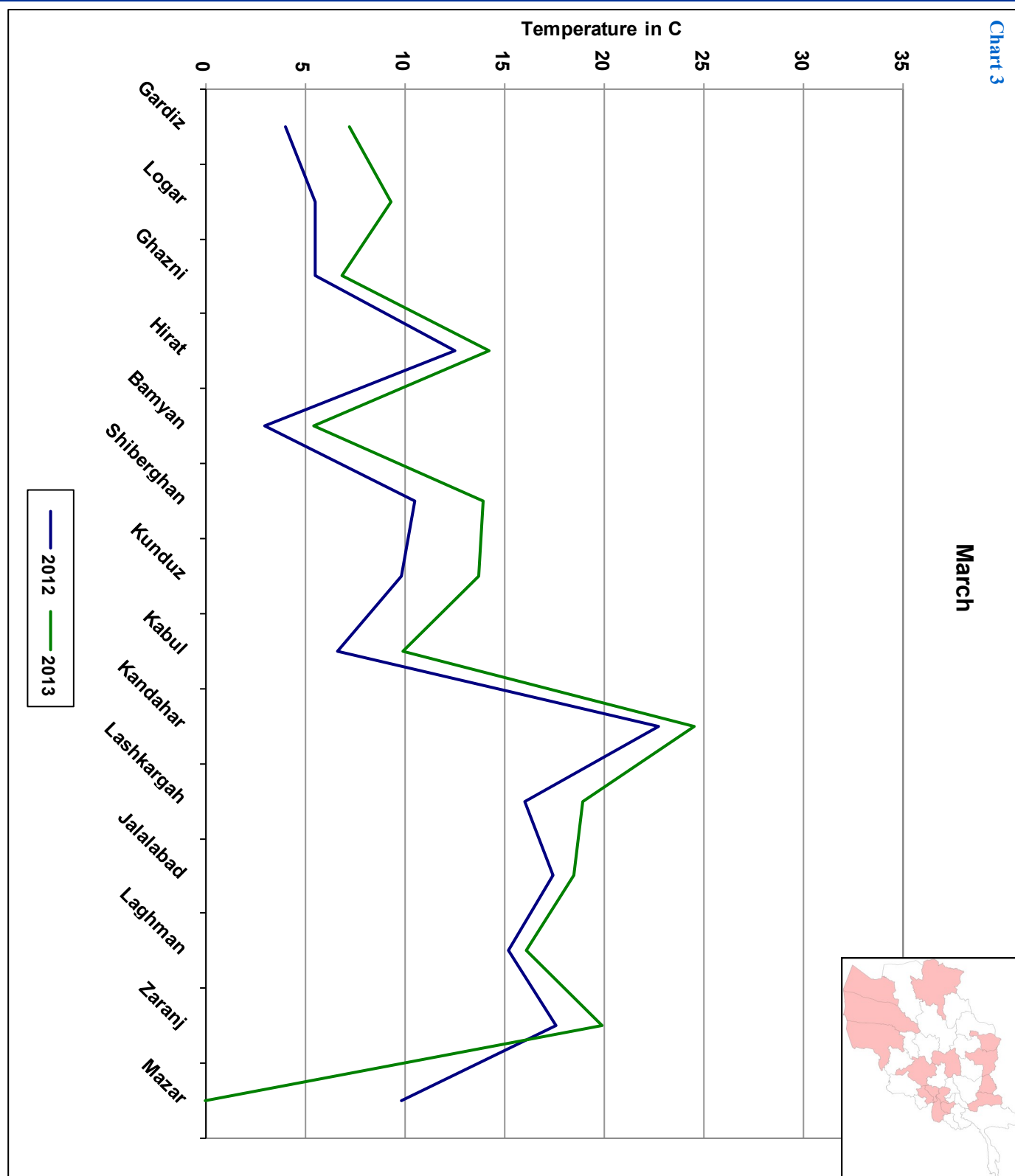
Afghanistan Snow Depth for month of March 2013



Map (9) shows snow depth for the end of March 2013. As map (9) shows, the snow depth has been recorded from 30 to 60 cm in the Northeastern and 10 to 30 cm in the Central Highlands and neighboring areas.



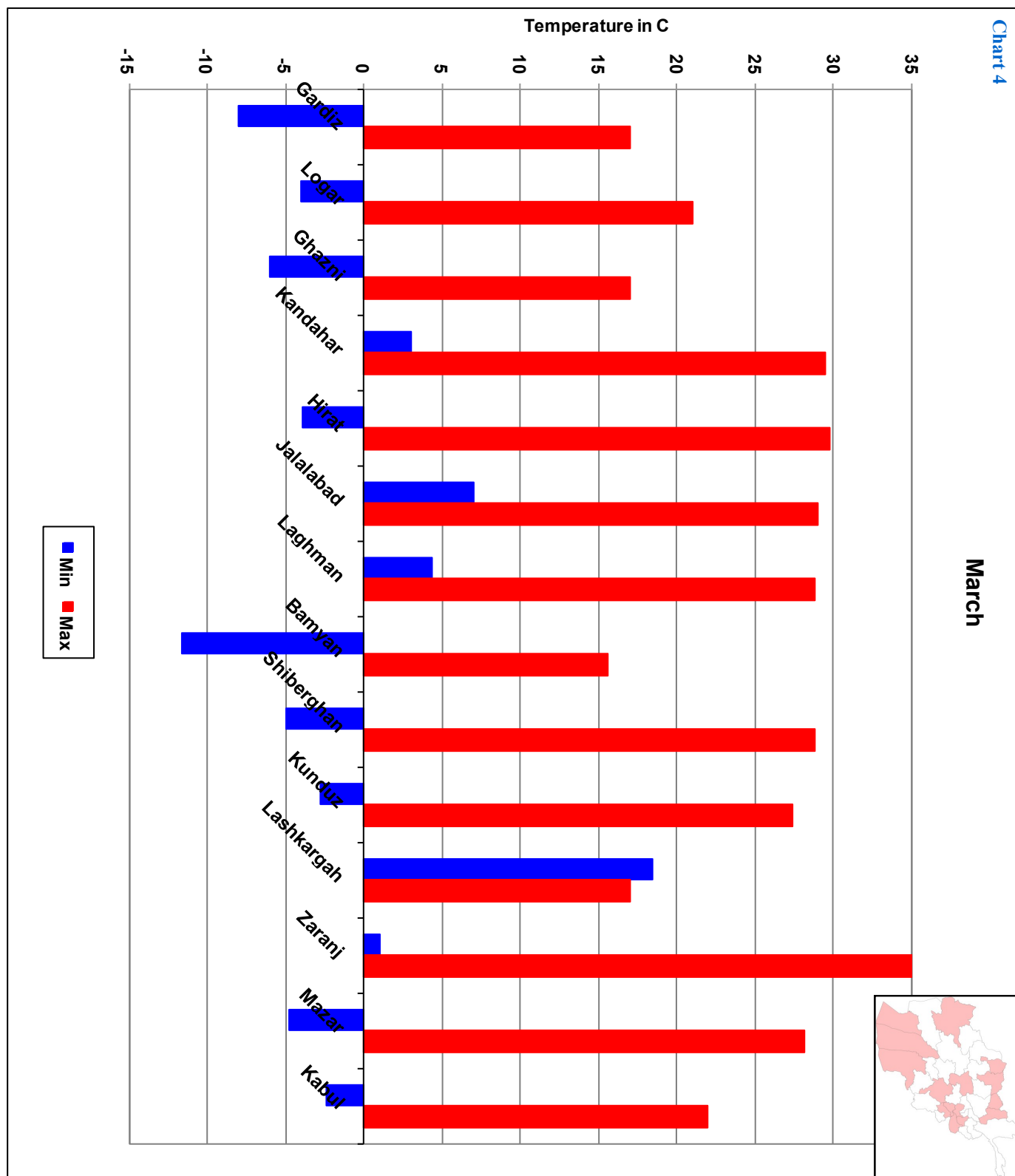
Wheat Crop Condition in Hirat Province.



During the month of March 2013, in most parts of the country the temperature rose gradually. In some parts of the country as in Northeastern region, Hindokosh Mountains and Central Highlands the temperature remained at freezing point. During the month of March 2013, the temperature had positive departure ranging around 2 – 4 C°.

Comparison of monthly average of temperature for the month of March 2013 with the same month in 2012 (Chart 3) shows that, all over the country the temperature had an increase during the month of March 2013 compared to the same month of last year.

Temperature for the Month of March 2013



Zaranj with 35 C° was the warmest spot of the country during the month of March 2013

Chart (4) shows maximum and minimum temperature for the month of March 2013. As chart shows Zaranj with 35 C° was the warmest spot of the country, but Bamyan with – 11.6 C° experienced the lowest temperature during this month.

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